

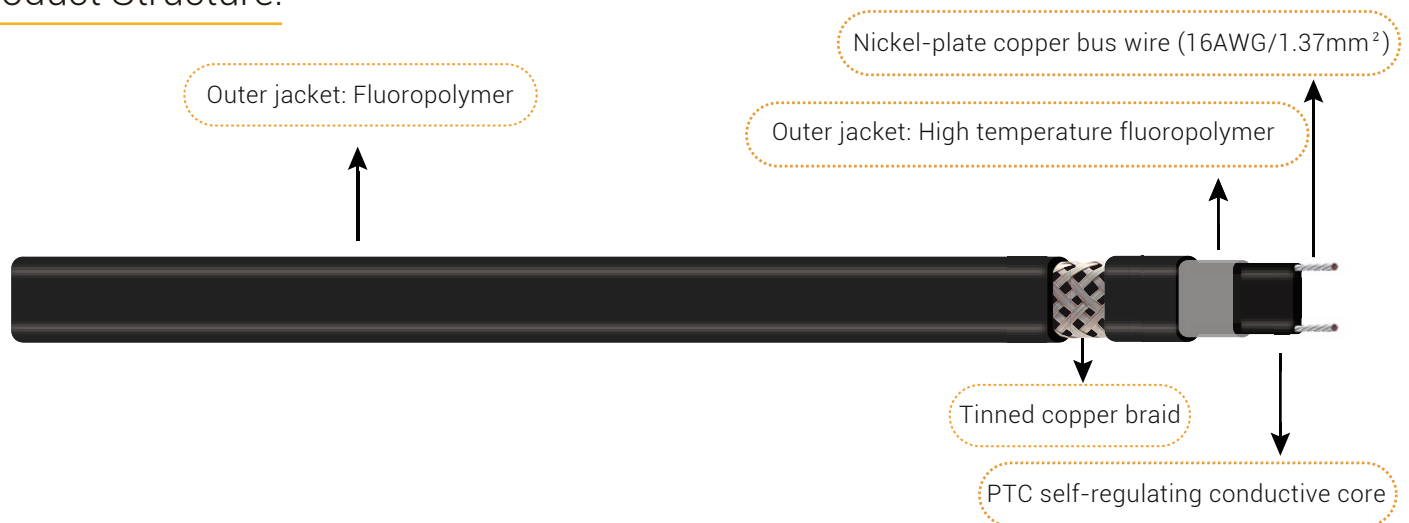


## HTU Super-High temperature self-regulating heating cable

### Overview:

Jiahong HTU Super-high temperature self-regulating heating cable can be used for freeze protection application and process temperature maintenance within/out steam purge (or the steam purge temperature will be lower than 232°C) in industry area. The maximum maintenance temperature will be up to 190°C. No matter whether the pipeline is overhead or buried installation, HTU heating cable can maintain the temperature and phase structure of the medium in the pipeline or vessel. HTU heating cable is certified by NEPSI (China), EAC(Russia) and IECEx for ex-proof application, as well as to be used in the area which is defined according to relative standard.

### Product Structure:



The extruded core tape, which made by parallel nickel-plate copper bus wire and PTC semiconductor polymer heating material, and inner insulation layer of fluoropolymer are added to tinned copper braid and the outer jacket form a complete structure of HTU heating cable, in which the outer jacket can be made of fluoropolymer material (CT).

### Product Feature:

- ◆ HTU heating cable is certified by IECEx, NEPSI (China) and EAC (Russia), including explosion-proof application, which can be used in the explosion area and ordinary safety area.
- ◆ According to the characteristics of automatic adjustment of power output based on ambient temperature, it can avoid overheating or burning on heating cable even in the case of overlapping installation; Simultaneously this feature can increase the efficiency of the heat tracing system and reduce energy consumption.
- ◆ It is allowed to cut arbitrarily within the interval specified by the maximum circuit length and connect with compliance accessories.
- ◆ It has a complete series of accessory, including standard power box, splice/tee connection box and end seal box etc, which can ensure the long service life of the product.



86 Guandou Street, Jiujiang district, Wuhu City, Anhui Province, P.R. China, 241000







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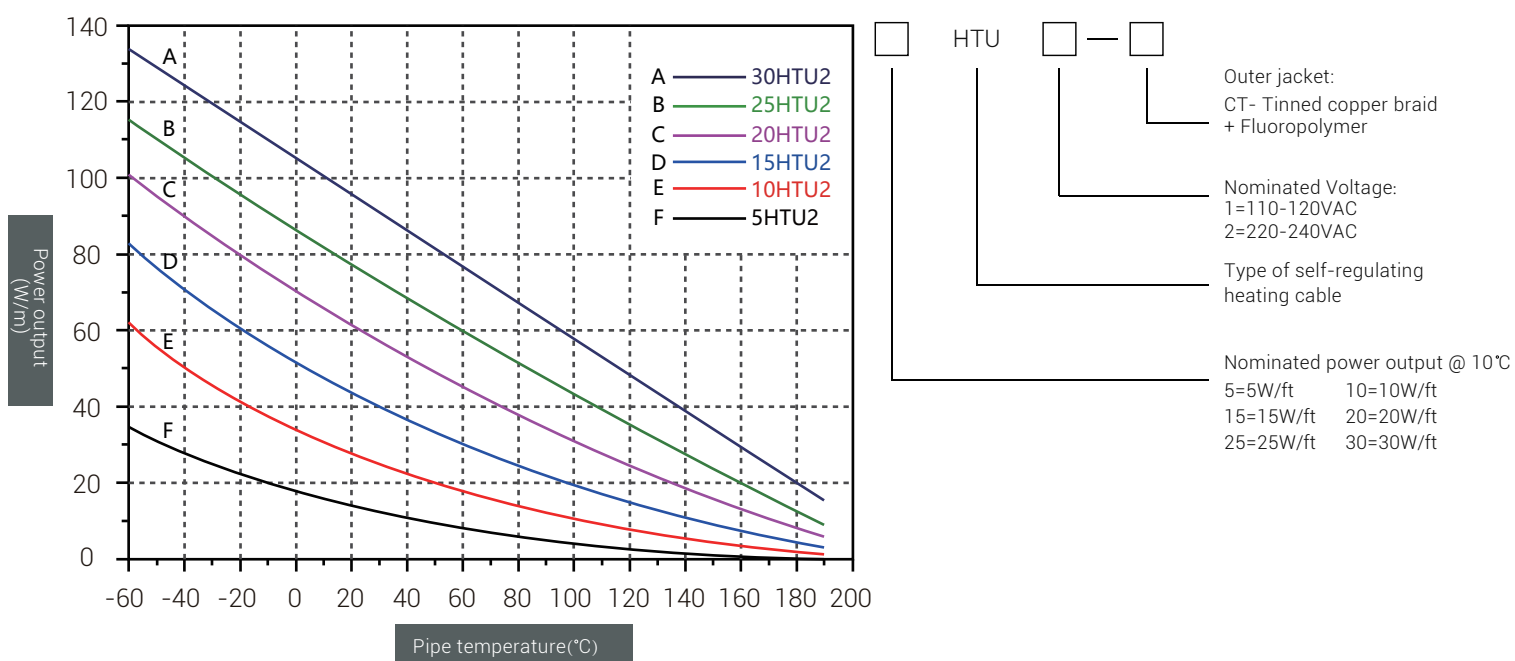
[info@ahjiahong.com](mailto:info@ahjiahong.com)



## Technical Specification:

Nominated Voltage:	110-120V(HTU1) / 220-240V(HTU2)
Maximum maintaince temperature:	+190℃ (375°F)
Maximum intermittent exposure temperature:	+232℃ (475°F)
Temperature classification:	T2
IP level:	IP66/67
Minimum installation temperature:	-60℃ (-76°F)
Minimum bending radius:	32mm
Nominated power output @10℃:	5W/ft, 10W/ft, 15W/ft, 20W/ft, 25W/ft, 30W/ft
Dimension:	CT: 12.4mm (W) ×4.8mm (T)
Approvals mark:	   

## Power output curve:



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[info@ahjiahong.com](mailto:info@ahjiahong.com)



## 120Vac Service Voltage:

CB size(A)	Start-up temperature °C (°F)	Max Circuit Length Vs Breaker Size (ft)					
		5HTU1	10HTU1	15HTU1	20HTU1	25HTU1	30HTU1
16	10 (50)	223	150	107	80	69	58
	0 (32)	212	134	106	78	65	54
	-10 (14)	195	122	97	73	61	51
	-20 (-4)	181	107	90	68	57	48
	-40 (-40)	157	91	78	60	51	43
20	10 (50)	269	187	134	100	87	72
	0 (32)	264	173	133	97	81	68
	-10 (14)	243	157	121	91	76	64
	-20 (-4)	224	143	112	85	71	60
	-40 (-40)	195	117	97	75	64	54
25	10 (50)	300	215	176	125	108	90
	0 (32)	293	208	166	122	101	85
	-10 (14)	272	194	152	113	95	79
	-20 (-4)	260	166	140	106	89	75
	-40 (-40)	241	144	121	94	80	67
32	10 (50)	311	215	176	157	138	116
	0 (32)	311	215	176	156	129	108
	-10 (14)	311	215	176	145	121	102
	-20 (-4)	311	204	166	136	114	96
	-40 (-40)	311	189	155	120	102	86
40	10 (50)	311	215	176	157	145	134
	0 (32)	311	215	176	157	145	134
	-10 (14)	311	215	176	157	145	127
	-20 (-4)	311	215	176	157	143	120
	-40 (-40)	311	215	176	150	128	107



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[info@ahjiahong.com](mailto:info@ahjiahong.com)



## 240Vac Service Voltage:

CB size(A)	Start-up temperature °C (°F)	Max Circuit Length Vs Breaker Size (ft)					
		5HTU2	10HTU2	15HTU2	20HTU2	25HTU2	30HTU2
16	10 (50)	447	300	215	160	138	116
	0 (32)	425	269	212	156	129	108
	-10 (14)	390	244	194	145	212	102
	-20 (-4)	361	213	179	136	114	96
	-40 (-40)	314	182	155	120	102	86
20	10 (50)	538	374	269	200	173	145
	0 (32)	529	346	265	195	162	135
	-10 (14)	485	314	243	181	152	127
	-20 (-4)	449	286	224	170	143	120
	-40 (-40)	390	234	194	150	128	107
25	10 (50)	601	430	353	249	216	181
	0 (32)	587	416	332	243	202	169
	-10 (14)	545	388	303	227	190	159
	-20 (-4)	520	331	280	212	179	150
	-40 (-40)	482	288	243	188	160	134
32	10 (50)	622	430	353	314	277	231
	0 (32)	622	430	353	311	259	217
	-10 (14)	622	430	353	290	243	203
	-20 (-4)	622	409	332	271	229	191
	-40 (-40)	622	377	311	240	205	171
40	10 (50)	622	430	353	314	291	267
	0 (32)	622	430	353	314	291	267
	-10 (14)	622	430	353	314	291	254
	-20 (-4)	622	430	353	314	286	239
	-40 (-40)	622	430	353	300	256	214

### Description:

1. The maximum circuit length shown is in accordance with IEC 60898, with Type C circuit breakers as standard, at reference start-up temperature and 10 °C. Experimental data obtained from instantaneous trip current characteristics under maintenance temperature conditions. For the maximum loop length corresponding to other trip current characteristics or other types of circuit breakers, please contact the technical representative of Jiahong Company.
2. Although the heat tracing system is generally used to maintain the medium in the pipe or vessel at the required temperature level, the self-regulating heat tracing cable may be at a lower temperature level when it is energized. For design data when the starting temperature is lower than the above temperature, please contact the technical representative of Jiahong Company.
3. Maximum loop length refers to the continuous length of the heating cable, not the sum of the lengths of multiple sections. Relating to current load for each section, please contact the technical representative of Jiahong Company.



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